

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (canceled)

A¹ 2. (currently amended) The retrofitable power monitoring system of claim [[1]] 5 wherein said meter stores information related to electrical usage.

3. (original) The retrofitable power monitoring system of claim 2 wherein said communications device periodically sends said electrical usage information from said meter to said server.

4. (canceled)

5. (currently amended) A retrofitable power monitoring system comprising:
an enclosure;

at least one current transformer within said enclosure;

a meter connected to said current transformer;

a communications device connected to said meter;

a server connected to said communications device; and

a software module coupled to said server;

~~The retrofitable power monitoring system of claim 4~~ wherein said software module includes a database object, said database including electrical usage information; an analysis object coupled to said database for analyzing said electrical usage information; a comparator object coupled to said database object, said comparator object

periodically comparing said electrical usage information and a predefined electrical rate profile; and, a reporting object coupled to said database object and said analysis object.

6. (original) The retrofitable power monitoring system of claim 5 wherein said reporting object provides a plurality of predefined reports.

7. (original) The retrofitable power monitoring system of claim 6 wherein said plurality of reports includes a report from a group consisting of demand graph, demand statistics, or bill verification.

8. (original) The retrofitable power monitoring system of claim 7 further comprising a monitor connected to said server, said reporting object displaying said plurality of reports on said monitor.

9. (canceled)

10. (original) The retrofitable power monitoring system of claim 9 wherein said comparator object determines a maximum electrical cost period.

11. (original) The retrofitable power monitoring system of claim 10 wherein said comparator object determines a minimum electrical cost period.

12. (original) The retrofitable power monitoring system of claim 11 wherein said reporting object is coupled to said comparator object, said reporting object providing a report showing said maximum electrical cost period and said minimum electrical cost period.

13. (original) The retrofitable power monitoring system of claim 12 wherein said reporting object provides an recommended electrical usage profile that minimizes the cost associated with the maximum electrical cost period.

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14. (currently amended) The A retrofitable power monitoring system comprising:
a plurality of electrical usage monitoring devices, each of said plurality of monitoring devices collecting information related to electric usage in a discreet location;
a server connected to communicate with said plurality of monitoring devices;
a database object coupled to said server, said database object storing said electrical usage information received from said plurality of monitoring devices;
an analysis object coupled to said database object for analyzing said electrical usage information;
a comparator object coupled to said database object, said comparator object periodically comparing said electrical usage information of each of said plurality of monitoring devices and a predefined electrical rate profile; and,
a reporting object coupled to said database object and said analysis object.

15. (canceled)

16. (original) The retrofitable power monitoring system of claim 15 wherein said comparator object determines a maximum electrical cost period for each of said plurality of monitoring devices.

17. (original) The retrofitable power monitoring system of claim 16 wherein said comparator object determines a minimum electrical cost period for each of said plurality of monitoring devices.

18. (original) The retrofitable power monitoring system of claim 17 wherein said reporting object is coupled to said comparator object, said reporting object providing a

report showing said maximum electrical cost period and said minimum electrical cost period for each of said plurality of monitoring devices.

19. (original) The retrofitable power monitoring system of claim 17 wherein said reporting object provides an recommended electrical usage profile that minimizes the cost associated with the maximum electrical cost period for at least one of said plurality of monitoring devices.

A\ 20. (original) The retrofitable power monitoring system of claim 14 wherein said reporting object provides a plurality of predefined reports.

21. (original) The retrofitable power monitoring system of claim 20 wherein said plurality of reports includes a report from a group consisting of demand statistics, demand statistics, or bill verification.

22. (original) The retrofitable power monitoring system of claim 20 further comprising a monitor connected to said server, said reporting object displaying said plurality of reports on said monitor.

[[22]] 23. (canceled)

[[23]] 24. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[22]] 30 wherein said communications device is a wireless type.

[[24]] 25. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[23]] 24 wherein said communications device transmits said usage information to said server by an infrared signal.

[[25]] 26. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[23]] 24 wherein ~~wherein~~ said communications device transmits said usage information to said server by a radio signal.

[[26]] 27. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[23]] 24 wherein ~~wherein~~ said communications device transmits said usage information to said server by a cellular signal.

A¹ [[27]] 28. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[22]] 30 wherein said communications device transmits said usage information to said server by an Ethernet network.

[[28]] 29. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[22]] 30 wherein said communications device transmits said usage information to said server via a telephone line.

[[29]] 30. (currently amended) A retrofitable system for monitoring electrical usage comprising:

a current sensor;

a meter coupled to said current sensor, said current sensor providing a signal to said meter indicative of said current;

a storage device associated with said meter, said meter storing electrical usage information on said storage device;

a communications device coupled to said meter;

a server coupled to said communications device, said communications device periodically transmitting said usage information to said server; and

a means associated with said server for reporting electrical usage;

~~A retrofitable system for monitoring electrical usage as in Claim 22~~ wherein said reporting means is a software module, said software module including a database object, an analysis object, a comparator object, and a reporting object.

[[30]] 31. (currently amended) A retrofitable system for monitoring electrical usage as in Claim [[29]] 30 further comprising a monitor, said monitor coupled to said server.

[[31]] 32. (currently amended) A method for monitoring electrical usage comprising:

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- sensing an electrical current;
- receiving a signal indicative of the electrical current;
- calculating electrical usage information associated with said received signal;
- storing the electrical usage information;
- transmitting the electrical usage information to a server;
- analyzing the electrical usage information;
- comparing the electrical usage information against a predetermined electrical rate profile; and
- reporting electrical usage parameters.

[[32]] 33. (currently amended) A method of monitoring electrical usage as in Claim [[31]] 32 wherein said reporting includes information on electrical demand.

[[33]] 34. (canceled)

[[34]] 35. (currently amended) A method of monitoring electrical usage as in Claim [[33]] 32 further comprising ~~the step of creating~~ an electrical cost profile.

[[35]] 36. (currently amended) A method of monitoring electrical usage as in Claim [[34]] 35 further comprising ~~the step of~~ analyzing the electrical cost profile.

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[[36]] 37. (currently amended) A method of monitoring electrical usage as in Claim [[35]] 36 further comprising ~~the step of~~ determining a recommended electrical usage profile that minimizes the electrical cost profile.
